

ASSIGNMENT

COPY OF ASSIGNMENT FOR
US PAT NOS. 6,383,978
6,472,552

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; (hereafter Assignor(s)), invented certain new and useful improvements in **PROMOTED MULTI-METAL OXIDE CATALYST**, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests insertion herein of the Serial Number 09/928,022 and filing date 8/9/01 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

7/27/01
Date

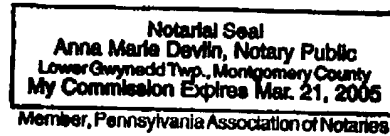
Leonard Edward Bogan, Jr.
LEONARD EDWARD BOGAN, JR.

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF MONTGOMERY : SS.

LEONARD EDWARD BOGAN, JR. personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of JULY, 2001.

[SEAL]

Anna Marie Devlin
Notary Public



ASSIGNMENT

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; ALEX PAK of 700 Lower State Road, Building 19, Apt. C4, North Wales, PA 19454 (hereafter Assignor(s)), invented certain new and useful improvements in **HIGH TEMPERATURE MIXING**, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

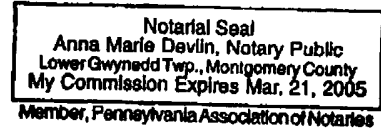
Assignor authorizes and requests insertion herein of the Serial Number 10/117,944 and filing date 4/8/02 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

7/27/01
Date

Leonard Edward Bogan, Jr.
LEONARD EDWARD BOGAN, JR.

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF MONTGOMERY : SS.



LEONARD EDWARD BOGAN, JR. personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of July, 2001.

[SEAL]

Anna Marie Devlin
Notary Public

7/27/01
Date

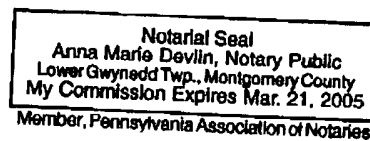
ALEX PAK
ALEX PAK

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF MONTGOMERY : SS.

ALEX PAK personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of JULY, 2001.

[SEAL]

Anna Marie Devlin
Notary Public



ASSIGNMENT

WHEREAS, **LEONARD EDWARD BOGAN, JR.** of 1229 Cowpath Road, Hatfield, PA 19440; **ALEX PAK** of 700 Lower State Road, Building 19, Apt. C4, North Wales, PA 19454 (hereafter Assignor(s)), invented certain new and useful improvements in **HIGH TEMPERATURE MIXING**, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

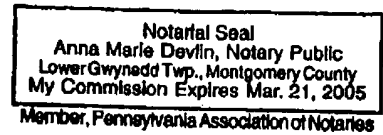
Assignor authorizes and requests insertion herein of the Serial Number 10/117,944 and filing date 4/8/02 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

7/27/01
Date

Leonard Edward Bogan, Jr.
LEONARD EDWARD BOGAN, JR.

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF MONTGOMERY : SS.



LEONARD EDWARD BOGAN, JR. personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of July, 2001.

[SEAL]

Anna Marie Devlin
Notary Public

7/27/01
Date

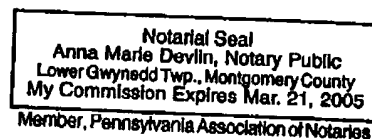
ALEX PAK
ALEX PAK

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF MONTGOMERY : SS.

ALEX PAK personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 27 day of JULY, 2001.

[SEAL]

Anna Marie Devlin
Notary Public



ASSIGNMENT

WHEREAS, LEONARD EDWARD BOGAN, JR. of 1229 Cowpath Road, Hatfield, PA 19440; SCOTT HAN of 4 Valerie Lane, Lawrenceville, NJ 08648; BRADLEY ANSON JACOBS of 105 Stockton Court, Chalfont, PA 18914; FREDERICK WILLIAM KAISER of 306 Summit Avenue, Fort Washington, PA 19034; PETER DAVID KLUGHERZ of 760 Killdeer Lane, Huntingdon Valley, PA 19006; MANHUA LIN of 1616 Holly Hill Lane, Maple Glen, PA 19002; RICHARD DAVID LINK, III of 58 Lavender Lane, Levittown, PA 19054; and MICHAEL WILLIAM LINSEN of 101 Hancock Road, North Wales, PA 19454 (hereafter Assignor(s)), invented certain new and useful improvements in **METHODS FOR PRODUCING UNSATURATED CARBOXYLIC ACIDS AND UNSATURATED NITRILES**, (hereafter "INVENTION") for which on the date below Assignor executed an application for Letters Patent of the United States of America;

WHEREAS at the time the INVENTION was made, Assignor was under an obligation to assign all right, title and interest in Assignor's INVENTION to ROHM AND HAAS COMPANY, a Delaware corporation having its principal place of business at 100 Independence Mall West, Philadelphia, Pennsylvania, 19106-2399, which wants to formalize the assignment and its ownership of the entire interest in the INVENTION and in any and all applications for patent thereon and in any and all Letters Patent which may be granted thereon;

NOW, THEREFORE, for valuable consideration received by Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor has assigned and by this Assignment does assign to ROHM AND HAAS COMPANY, for the United States of America, its territorial possession, and for all foreign countries, the entire right, title, and interest in and to the INVENTION including the right to apply for patents, or similar protection, including any continuations, divisional, renewal, substitute, reissue or improvement applications, and to claim International Convention priority, in all such foreign countries; Assignor further agrees without further consideration to testify in any proceedings, to execute all papers, execute all divisional, continuing, continuation-in-part, reissue and foreign applications, and make all rightful oaths and declaration relating to the INVENTION, requested by the ROHM AND HAAS COMPANY; and Assignor does hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding official in any foreign country to issue any Letters Patent which may be granted in the United States or foreign country, respectively, to ROHM AND HAAS COMPANY for its sole use and benefit and for its successors and assigns, to the full end of the term or terms for which said Letters Patent may be granted.

Assignor authorizes and requests insertion herein of the Serial Number 09/962,487 and filing date 09/25/2001 of said application when officially known.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature(s).

2/28/01
Date

Leonard Edward Bogan, Jr.
LEONARD EDWARD BOGAN, JR.

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.

LEONARD EDWARD BOGAN, JR. personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 28 day of February, 2001.

[SEAL]



Phyllis B. Weaver
Notary Public

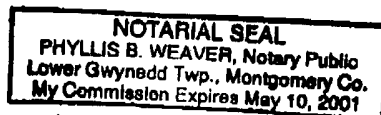
Feb. 28, 2001
Date

Scott Han
SCOTT HAN

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.

SCOTT HAN personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 28 day of February, 2001.

[SEAL]



Phyllis B. Weaver
Notary Public

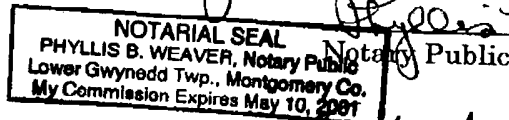
February 28, 2001
Date

Bradley Anson Jacobs
BRADLEY ANSON JACOBS

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.

BRADLEY ANSON JACOBS personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 28 day of February, 2001.

[SEAL]



Feb. 28 2001
Date

Phyllis B. Weaver
Notary Public
Fredrick William Kaiser
FREDERICK WILLIAM KAISER

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.

FREDERICK WILLIAM KAISER personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 28 day of February, 2001.

[SEAL]



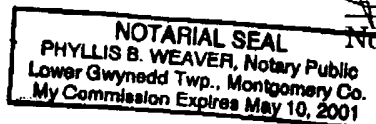
March 8, 2001
Date

Phyllis B. Weaver
Notary Public
Peter David Klugherz
PETER DAVID KLUGHERZ

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.

PETER DAVID KLUGHERZ personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 8 day of March, 2001.

[SEAL]



Phyllis B. Weaver
Notary Public

3-13-01

Date

RD Link, III

RICHARD DAVID LINK, III

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Lower Bucks : SS.
:

RICHARD DAVID LINK, III personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 13th day of March, 2001.

[SEAL]

Linda L. Burns
Notary Public

NOTARIAL SEAL
LINDA L. BURNS, Notary Public
Bristol, Bucks County
My Commission Expires March 25, 2003

3/8/01
Date

Michael William Linsen
MICHAEL WILLIAM LINSEN

COMMONWEALTH OF PENNSYLVANIA :
COUNTY OF Montgomery : SS.
:

MICHAEL WILLIAM LINSEN personally appeared before me and acknowledged to me that the execution of the foregoing instrument is an act of free will and deed of this 8 day of March, 2001.

[SEAL]

Phyllis B. Weaver
Notary Public

NOTARIAL SEAL
PHYLLIS B. WEAVER, Notary Public
Lower Gwynedd Twp., Montgomery Co.
My Commission Expires May 10, 2001